

AMENDMENTS TO THE SPECIFICATION

Please amend the abstract as follows:

--[A mechanism is provided for reordering] Reordering bus transactions [to increase] increases bus utilization [in a computer system in which] where a split-transaction bus is bridged to a single-envelope bus. In one embodiment, both masters and slaves are ordered[, simplifying implementation. In]; in another embodiment, [the system is more loosely coupled with] only masters [being] are ordered. Greater bus utilization is thereby achieved. To avoid deadlock, transactions begun on the split-transaction bus are monitored. When a combination of transactions would[,] result in deadlock if a predetermined further transaction were to begin, [result in deadlock,] this condition is detected. In the more tightly coupled system, the predetermined further transaction[, if it] is refused if requested, [is refused, thereby] avoiding deadlock. In the more loosely-coupled system, the flexibility afforded by unordered slaves is taken advantage of to[, in the typical case,] reorder the transactions and avoid deadlock without killing any transaction. Where a data dependency exists that would prevent such reordering, the further transaction [transactions] is killed as in the more tightly-coupled embodiment. Data dependencies are detected in accordance with address-coincidence signals generated by slave devices on a cache-line basis. [In accordance with a further optimization, at least one slave device (e.g., DRAM) generates page-coincidence bits. When two transactions to the slave device are to the same address page, the transactions are reordered if necessary to ensure that they are executed one after another without any intervening transaction. Latency of the slave is thereby reduced.]--

Please replace the paragraph at column 1, line 4, with the following paragraph:

-- Notice: More than one reissue application has been filed for the reissue of U.S. Patent No. 5,996,036. The reissue applications are U.S. Patent Application No. 10/006,939 (now U.S. Patent No. RE38,428) and U.S. Patent Application No. 10/669,119 (the present application). The present application is a continuation of U.S. Patent Application No. 10/006,939 (now U.S. Patent No. RE38,428), which is a continuation-in-part of U.S. Patent Application No. 08/432,622, filed May 2, 1995, now abandoned.--